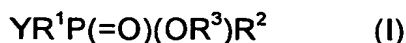


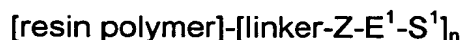
Abstract

Combinatorial preparation of phosphorus-containing active compounds and
 5 intermediates by solid phase synthesis

The invention relates to solid phase processes for the systematic preparation of
 chemical compounds from the group of the phosphonous or phosphinic acids and/or
 derivatives thereof and the corresponding substance libraries which can be
 10 employed for test purposes, in particular tests for biological activity. The compounds
 (I)



15 in which Y, R¹, R², R³ are as defined in Claim 1 are prepared by reacting a resin-
 linker adduct (II)

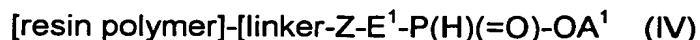


20 in the presence of a suitable Pd catalyst with a phosphinate (III)



with substitution of the group S¹ to give the compound (IV)

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and cleaving the compound (I) after derivatization reactions on the resin from the
 resin-linker adduct.

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The invention also provides the intermediate steps and resin-linked intermediate
 compounds, and also the substance libraries obtained.

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